



MICROGRAPHIA

of their smallness, 3. The difficulty of finding the de-
 placing it so, as to reflect the light conveniently for the
 ones being able to view it but with one eye at once, the
 small obstructions, nor are they easily removed witho-
 ces. But to proceed, I could not find that water, or
 liquors would in small ones rise so high as one would
 highest I have found it yet rise in any of the pipes I
 21 inches above the level of the water in the vessel:
 that in the small pipes it would nimbly enter at first,
 7 inches upwards; yet I found it then to move upwa-
 have not yet had the patience to observe it above the
 ches (and that was in a pretty large Pipe, in compar-
 merly mentioned; for I could observe the progress of
 liquor in it with my naked eye, without much trouble
 the other pipes were so very small, that unless in a conve-
 light, I could not perceive them :) But 'tis very proba-
 patience and assiduity may discover the liquors to rise
 suspended, at heights that I should be loath now ev-
 least there be any proportion kept between the height
 liquor, and the bigness of the holes of the pipes.

An Attempt for the Explication of this Expe-

My Conjecture, That the unequal height of the sur-
 proceeded from the greater pressure made upon the
 without the Pipes A B C, then by that within them; I
 confirm from the truth of the two following Propositions.

The first of which is, That an unequal pressure of the
 will cause an unequal height in the water's Surfaces.

And the second is, That in this experiment there is
 pressure.

That the first is true, the following Experiment will
 you take any Vessel so contrived, as that you can at pleasure
 crease or diminish the pressure of the Air upon this or that
 perficies of the water, the equality of the height of the
 fently be lost; and that part of the superficies that sustains
 sure, will be inferior to that which undergoes the less.
 this purpose, will be an inverted Glass Syphon, such as is
 bed in the Sixth Figure. For if into it you put Water
 high as A B, and gently blow in at D, you shall depress
 and thereby raise the opposite Superficies A to a consi-
 by gently sucking you may produce clean contrary effects.

Next, That there is such an unequal pressure, I shall
 That there is a much greater incongruity of Air to Glass, and
 then there is of Water to the same.